

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

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**PCT**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

	Date of mailing (day/month/year) <b>13 -07- 2004</b>
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Applicant's or agent's file reference <b>104379 PJ/HA</b>	<b>FOR FURTHER ACTION</b> See paragraph 2 below
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International application No. <b>PCT/FI2004/000211</b>	International filing date (day/month/year) <b>07.04.2004</b>	Priority date (day/month/year) <b>10.04.2003</b>
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International Patent Classification (IPC) or both national classification and IPC <b>B64C 1/38, F15D 1/02, 1/12</b>
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Applicant <b>PULKKA, Esko</b>
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1. This opinion contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I Basis of the opinion
<input type="checkbox"/>	Box No. II Priority
<input type="checkbox"/>	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI Certain documents cited
<input type="checkbox"/>	Box No. VII Certain defects in the international application
<input type="checkbox"/>	Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further opinions, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88
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Authorized officer
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WRITTEN OPINION OF THE  
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International application No.  
PCT/FI2004/000211

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
 This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. **type of material**  
 a sequence listing  
 table(s) related to the sequence listing
  - b. **format of material**  
 in written format  
 in computer readable form
  - c. **time of filing/furnishing**  
 contained in the international application as filed.  
 filed together with the international application in computer readable form.  
 furnished subsequently to this Authority for the purposes of search.
3.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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Box No. V **Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	YES	
	Claims	1-11	NO
Inventive step (IS)	Claims	YES	
	Claims	1-11	NO
Industrial applicability (IA)	Claims	YES	
	Claims	1-11	NO

2. Citations and explanations:

Cited documents:

D1: EP, A2, 354022  
 D2: US, A, 3578264  
 D3: US, A, 3776363  
 D4: US, A, 4284302  
 D5: US, A, 4564959  
 D6: US, A, 5200573  
 D7: US, A, 5289997  
 D8: US, A, 5836840  
 D9: US, A, 6131853  
 D10:US, A, 6276636  
 D11:US, A, 6729846

A method for reducing kinetic friction, where devices and appliances of different materials, sizes and shapes are provided with profiled surface patterns to reduce kinetic friction when being in contact with air, gas or liquid masses, according to claims 1-3 is known from D1-D11. Thus, the invention defined in claims 1-3 is not new and consequently lacks novelty and inventive step.

D1-D11 discloses some different applications of this principle to reduce kinetic friction. In claims 4-10 merely a number of different fields of application for reducing kinetic friction according to claims 1-3 are enumerated, without specifying any technical solutions. Accordingly, it is a well known art to use different materials, sizes and shapes provided with profiled surface patterns for the

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**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

purpose of reducing kinetic friction when being in contact with air, gas or liquid masses and hence, obvious to a person skilled in the art. Since no unexpected technical effect has been achieved, the invention defined in claims 4-10 must be considered as an obvious application of known art. Therefore claims 4-10 lacks novelty and inventive step.

Since the function of a "burning lens" must be regarded as general knowledge, the subject-matter of claim 11 is not considered to go beyond what can be expected from a person skilled in the art. Therefore, claim 11 lacks inventive step.